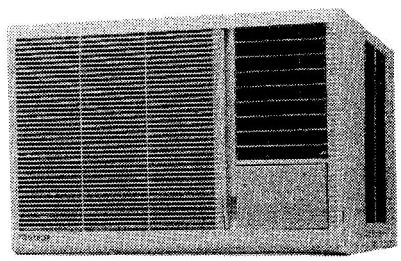
SHARP SERVICE MANUAL

S35B5AFA095V/



AIR CONDITIONER

MODELS AF-A095V

In the interests of user-safety (Required by safety regulation) the set should be restored to its original condition and only parts identical to those specified should be used.

This is a supplemental Service Manual for Model AF-A095V.
AF-A095V is quite similar to base Model AF-903S (Refer No. S92X2AFS093MS).
Use this supplimental manual together with the base Model Service Manual.
Refer to the base Model Servive Manual for complete operation, service information, etc.

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SHARP CORPORATION

SPECIFICATIONS

ITEMS			AF-A095V
Cooling capacity		kW	2.6
Moisture removal		Liters/h	1.3
		Pints/h	2.7
Air circulation at High Cool		m^3/min.	7.5
		cft/min	265
Air exhaust			Yes
4 way air deflection			Manual
Automatic temperature control			Yes
Fan shapes	Indoor side		Centrifugal
	Outdoor side		Propeller
Electrical data			
Phase			Single
Frequency		Hz	50
Voltage range		Volts	198 - 264
Rating voltage		Volts	220 - 240
Running current		Amp.	4.7 - 4.5
Power input		Watts	990 - 1020
Power factor		%	96 - 94
Fuse		Amp.	10
Power cord length		m(ft.)	1.5(5)
Refrigerant R-22		g(oz.)	470(16.6)
Oil charge		c.c.	350(4GSD-T)
Net dimensions	Width	mm	500
	Height	mm	345
	Depth	mm	520
Net weight		Kg(lbs.)	32(71)
Capillary tube size Outer diam. x Inner diam. Length x Q'ty		mm	2.7 x 1.5 x 500 x 1

ELECTRICAL PARTS

ITEMS	AF-A095V
Power source	220 - 240V, 50Hz
Compressor	806-919-45
Overload relay	MST20ALU-9201
Running capacitor	370V, 22.5μF
Selector switch	C2S-3H-1
Thermostat	YTB-P114
Fan motor	MLA375
Fan motor capacitor	400V, 2.3μF

WIRING DIAGRAM

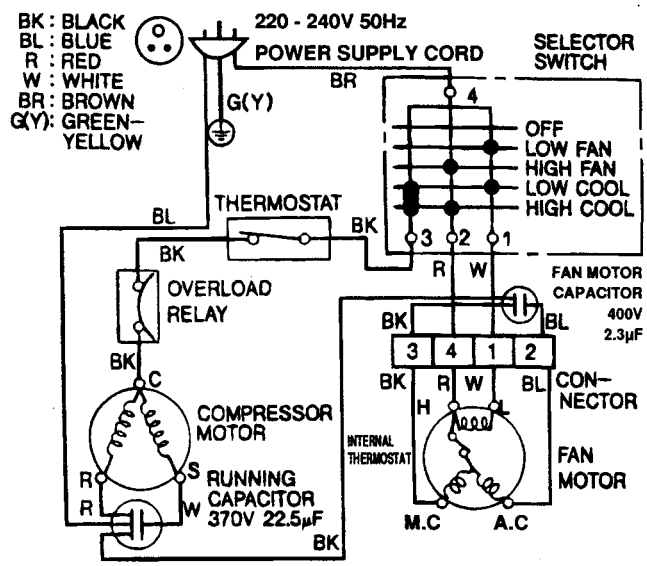
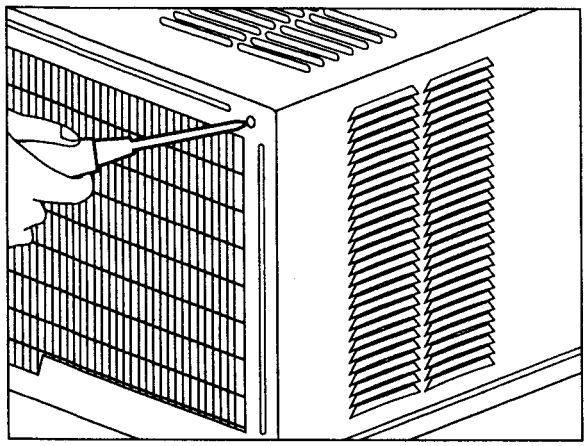


Figure W-1. Wiring diagram for Model AF-A095V

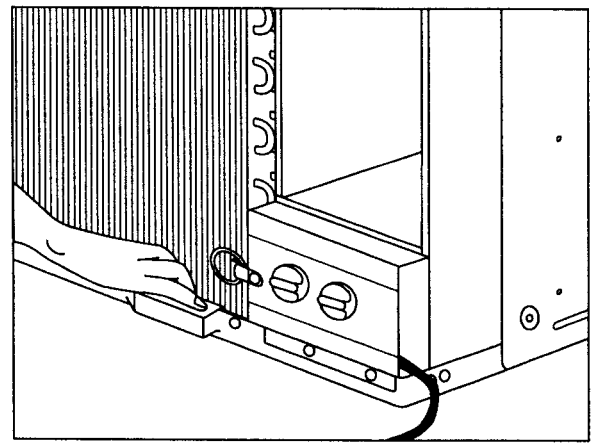
COMPONENT REPLACEMENT AND ADJUSTMENT PROCEDURE

ACTUAL UNIT MAY VARY SLIGHTLY FROM THOSE PICTURES BELOW

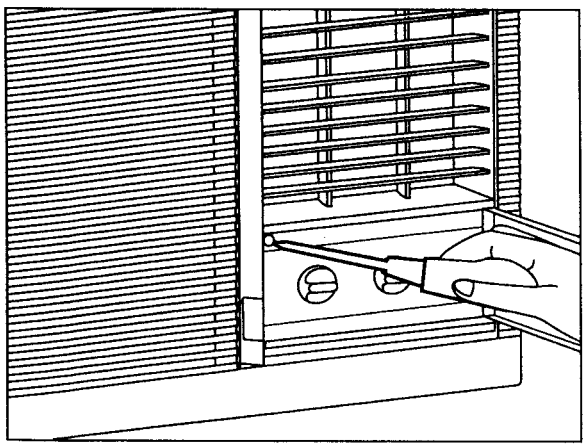
CAUTION: DISCONNECT THE UNIT FROM THE POWESUPPLY BEFORE ANY SERVICING



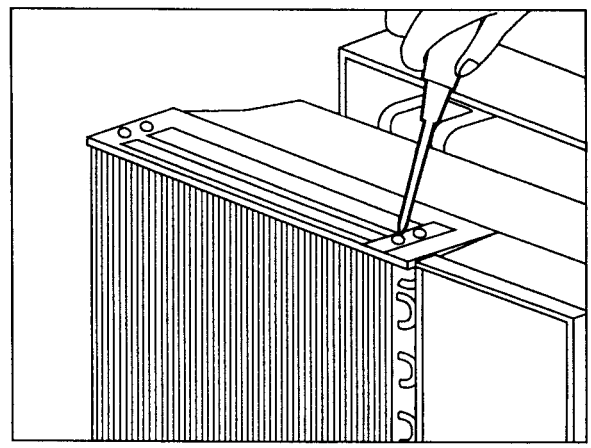
1. Remove four screws at both sides and the upper rear side (if any) of the cabinet.



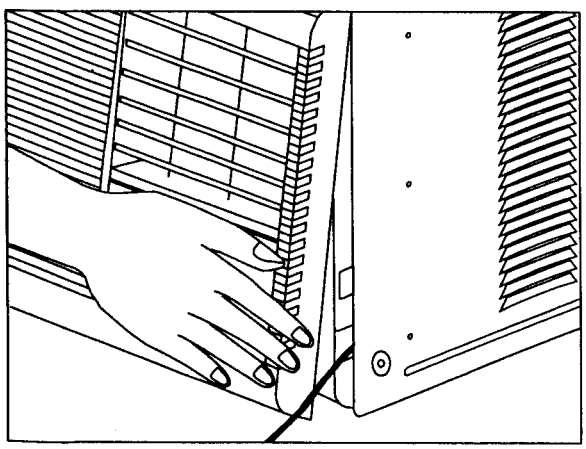
4. Slide the chassis away from the cabinet by pulling on the hand hold located at the bottom center of the chassis.



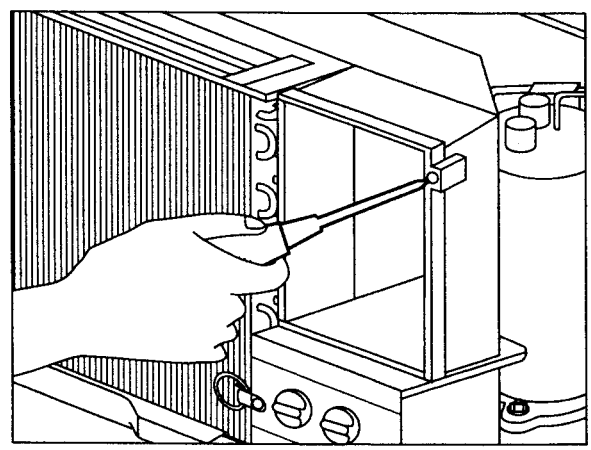
2. Open the control panel and remove the silver color screw holding the front panel.



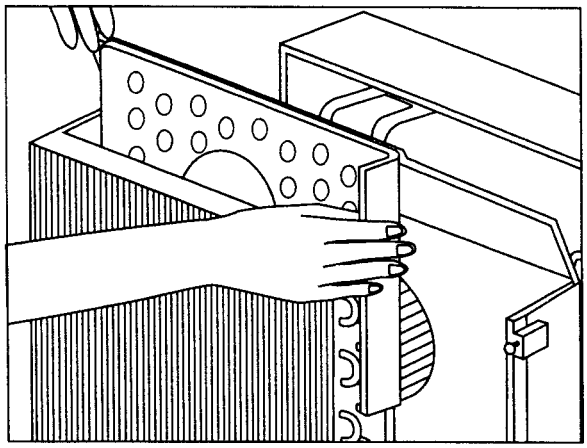
5. Remove four screws on the top of the fan housing.



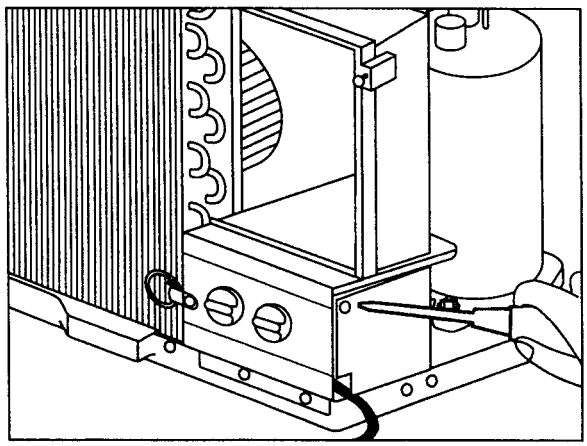
3. Grasp at lower part of the front panel with your hands and gently pull it toward you about 2.5cm (1 inch), then lift it up slightly and off.



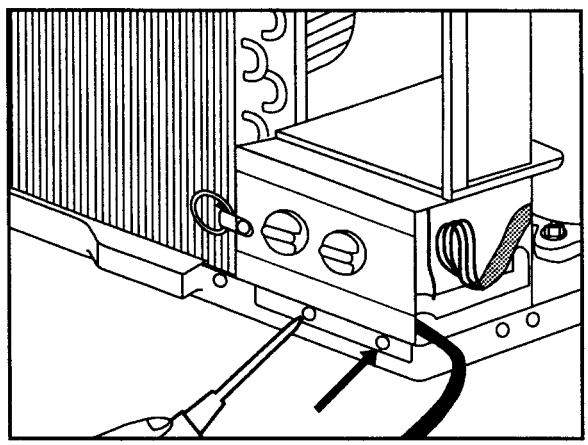
6. Loosen the screw on the right side of the fan housing, and open it by lifting.



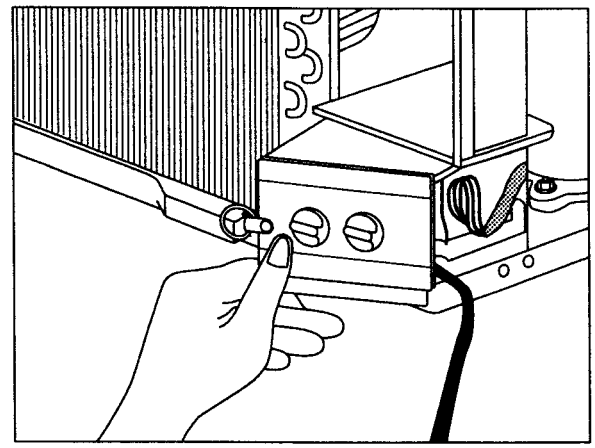
7 Pull out the orifice by lifting.
Remove four screws holding the evaporator.



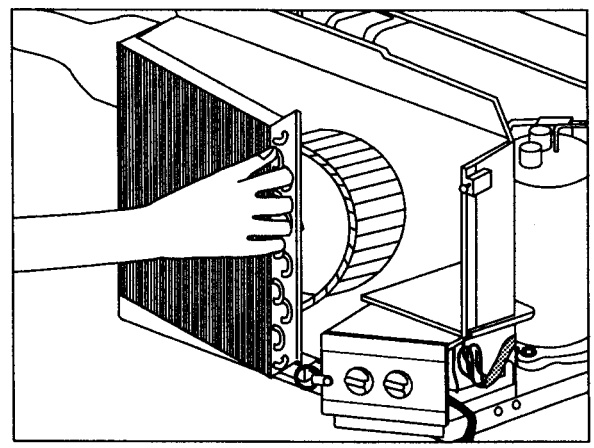
8. Pull out the box side cover by removing one screw holding it.
Note: Insert the box side cover firmly as before in assembling.



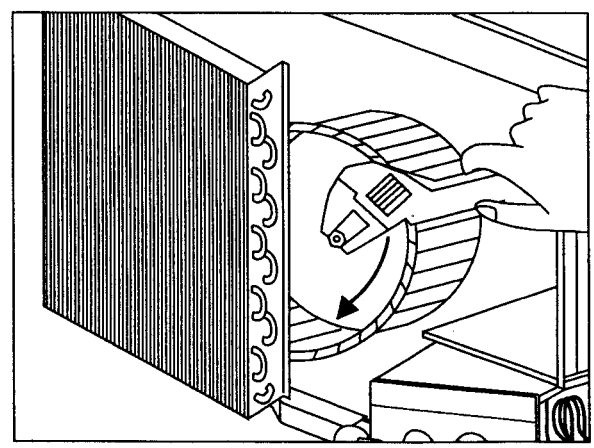
9. Remove two screws holding the control panel and the control box assembly.



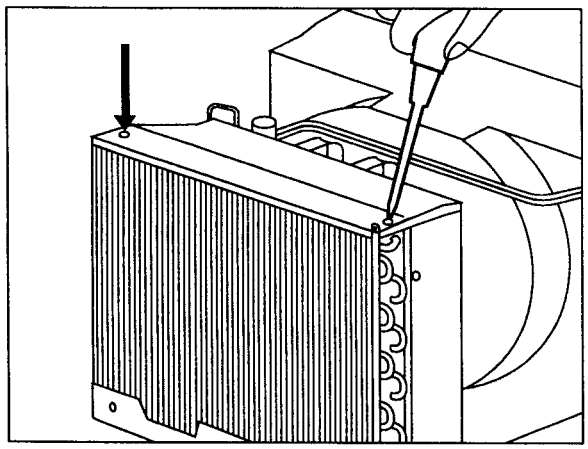
10. Pull out the control box assembly to the right side slightly.



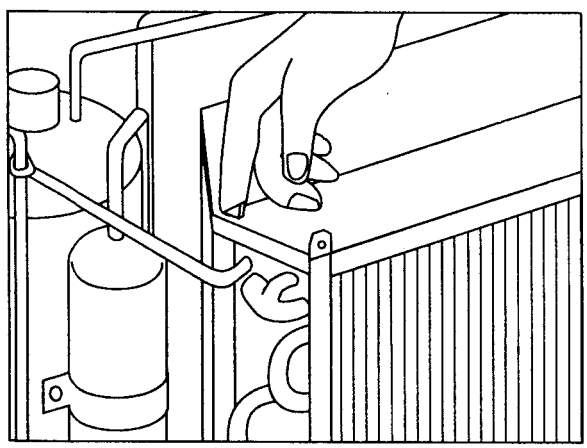
11. Take out the evaporator carefully not to deform the pipings.
Note: Reform the connected pipings as before in assembling if the pipings are deformed or touch each other or other parts.



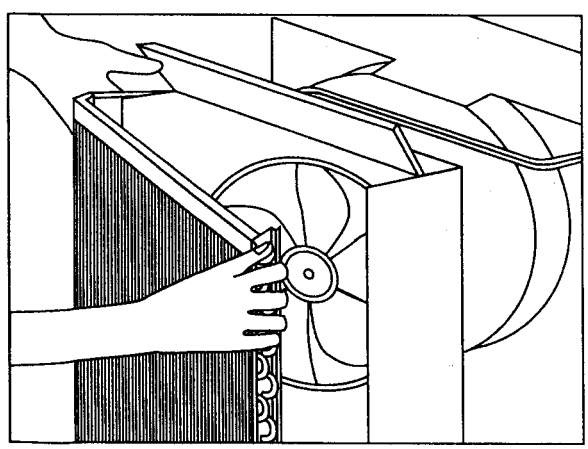
12. Remove the nut holding the centrifugal fan by rotating the nut clockwise.



13.Remove two screws on the cover of the condenser shroud.

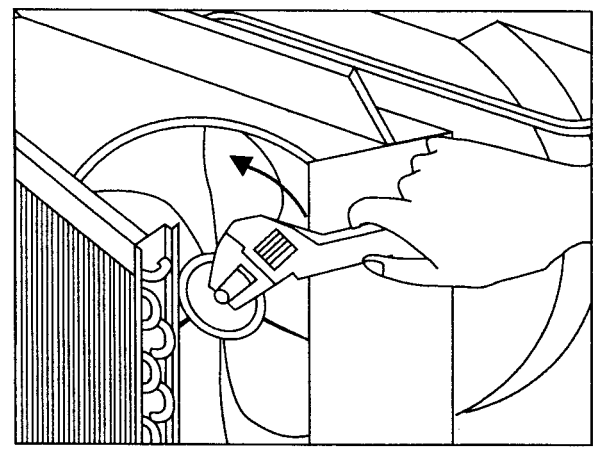


14.Open the cover of the condenser shroud by pulling the claw of this frontward.

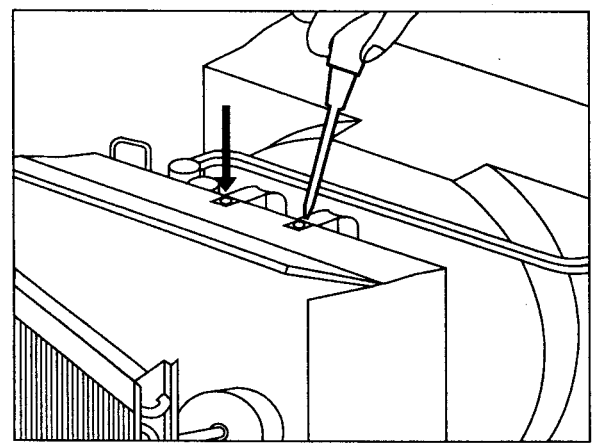


15.Remove one screw holding the tube holder. Remove three screws holding the end plate R-K and four screws holding the end plate L-K. Take out two and plates and the condenser together carefully not to deform the piping. And remove two end plates from the condenser.condenser, and take out the condenser carefully not to deform the pipings.

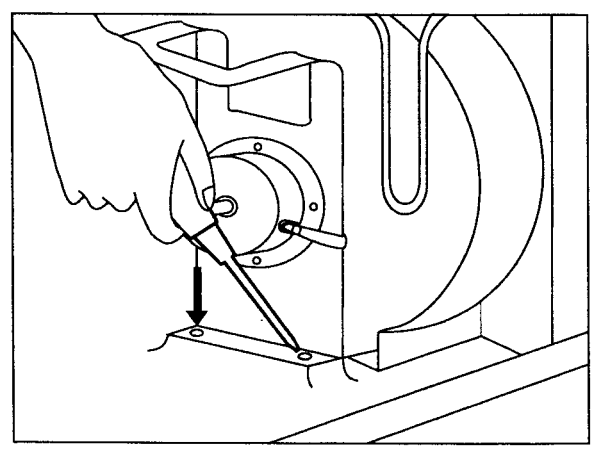
Note: See Note of No. 11.



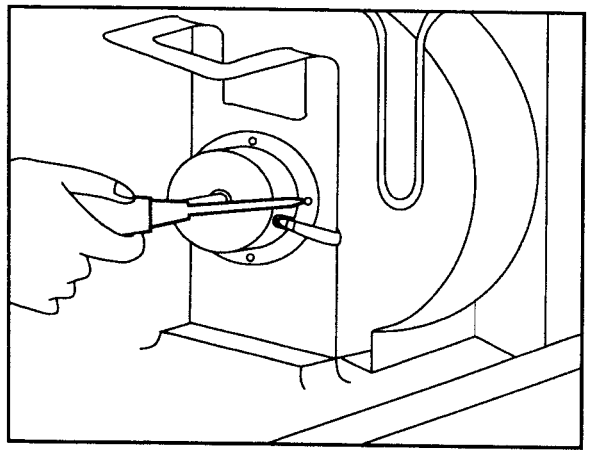
16.Remove the nut holding the propeller fan by rotating the nut counterclockwise.



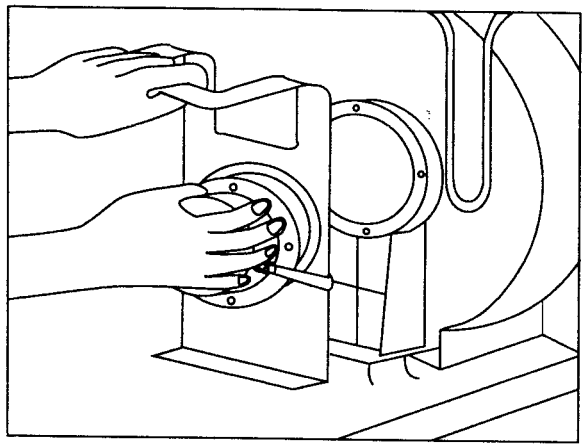
17.Pull out the condenser shroud toward you by removing two screws holding it.



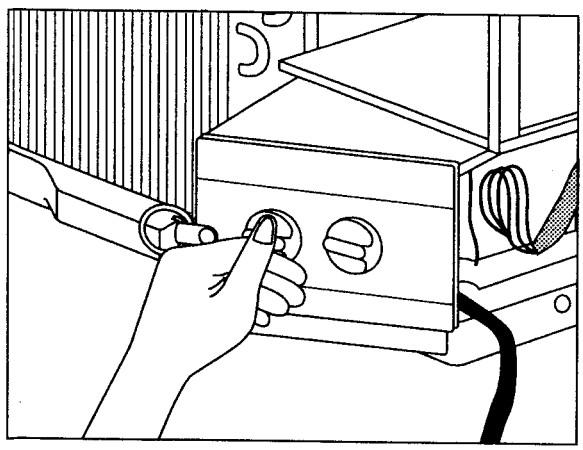
18. Remove two screws holding the connecting stay.



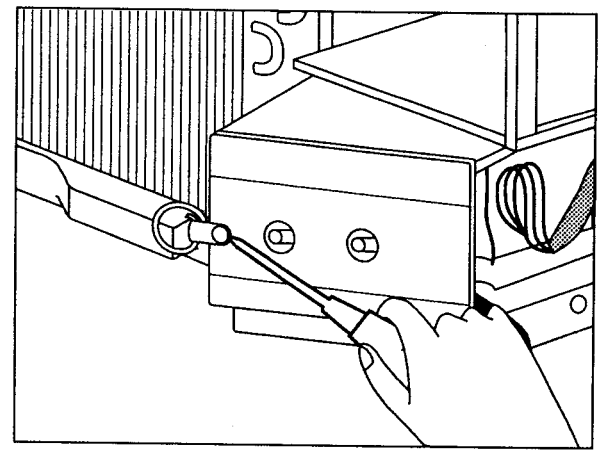
19. Remove four screws of large screw head holding the fan motor by keeping it.



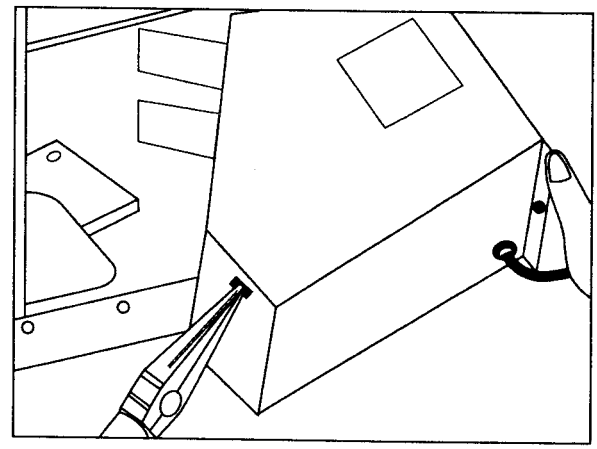
20. Remove the fan motor from the connecting stay.



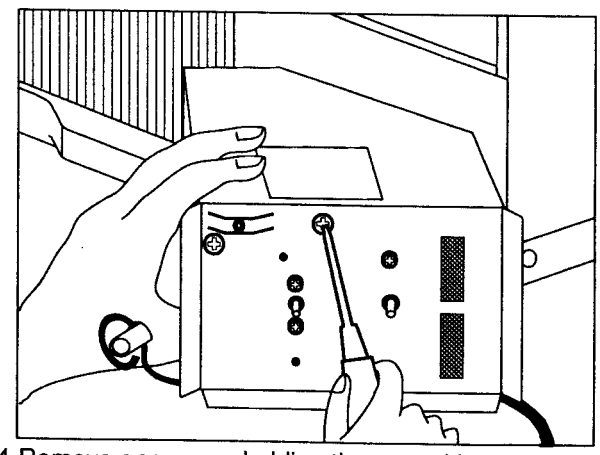
21. Continued from No. 10.
Pull out two control knobs.



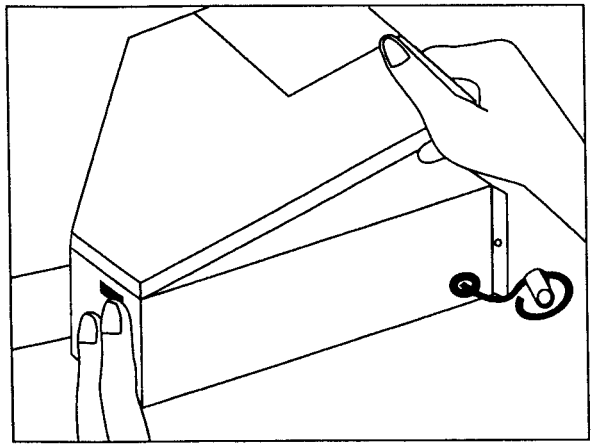
22. Remove the control panel by removing one screw holding it.



23. Pull out the control box assembly.
Unbend the bent tab by plier on the rear side of the control box assembly.



24. Remove one screw holding the control box cover U.



25. Lift the control box cover U up slightly and push it backward to remove.

REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	Q'TY	CODE
		CABINET AND UNIT PARTS		
1- 1	DCHS-A230JBTA	Base pan ass'y	1	AX
1- 2	CMOTLA375JBE0	Fan motor	1	BY
1- 3	MLEVPA005JBFA	Damper	1	AH
1- 4	PSRA-A053JBF0	Drain tray	1	AW
1- 5	NFANPA027JBF0	Propeller fan	1	AW
1- 6	NFANSA008JBFA	Centrifugal fan	1	AV
1- 7	PKESSA025JBFA	Fan housing	1	BL
1- 8	PKESSA024JBF0	Orifice	1	AW
1- 9	DCAB-A052JBTA	Cabinet ass'y	1	BA
1- 10	PSEL-A461JBE0	Bulkhead insulator R	1	AK
1- 11	PSEL-A462JBE0	Bulkhead insulator L	1	AH
1- 12	PSEL-A463JBE0	Bulkhead insulator U	1	AH
1- 13	PKESPA013JBF0	Condenser shroud	1	BD
1- 14	LANG-A145JBP0	Eva. hold angle	1	AM
1- 15	LANG-A142JBW0	Connecting stay	1	AS
1- 16	PSEL-A460JBE0	Damper insulator	1	AH
1- 17	LX-NZA053JBE0	Special nut	4	AH
1- 18	PFPFPA747JBE0	F-housing insulator	1	AK
1- 19	PFPFPA768JBE0	F-housing insulator	1	AH
1- 20	LBND-A042JBE0	Wire fixing band	2	AZ
1- 22	LX-NZA002QBE0	Special nut (Propeller)	1	AA
1- 23	LX-NZA030JBE0	Special nut (Centrifugal)	1	AB
1- 24	PFPFPA746JBE0	Tube insulator	2	AK
1- 25	LBND-A034JBE0	Wire fixing band	1	AB
1- 27	TLABBA110JBRA	SHARP badge	1	AB
1- 29	PSEL-A480JBE0	Cond. insulator	1	AH
1- 30	XFPSD50P12000	FT screw	2	AA
		CONTROL BOX PARTS		
2- 1	LPLTMA061JBW0	Control box	1	AS
2- 2	LPLTMA060JBW0	Control box cover	1	AN
2- 3	HPNLCA593JBEA	Control panel	1	AM
2- 4	JKNB-A020JBK0	Control knob ass'y	1	AW
2- 5	LBNDKA035JBW0	Capacitor clamp	1	AL
2- 6	LHLDW0364JBE0	Wire holder	1	AA
2- 7	QACC-A160JBE0	Power supply cord	1	BD
2- 8	QSW-RA011JBE0	Selector switch	1	AX
2- 9	CW-VZA083JBK0	Compressor cord	1	AY
2- 10	RHOG-A083JBE0	Protector	1	AR
2- 11	RC-HZA166JBE0	Fan motor capacitor	1	AP
2- 12	RC-HZA149JBE0	Running capacitor	1	AW
2- 13	RTHM-A157JBE0	Thermistor	1	BD
2- 14	CW-VZA085JBK0	Lead wire	1	AK
2- 15	CW-VZA081JBK0	Lead wire	1	AL
2- 16	CW-VZA081JBK0	Lead wire	1	AK
2- 17	PTUBBA031JBE0	Protect tube	1	AH
2- 18	LBND-A042JBE0	Wire fixing band	4	AL
2- 19	LPLTMA063JBW0	Control box cover U	1	AQ
2- 20	TLABCA725JBR0	Wiring diagram	1	AC
2- 21	PCOV-A181JBE0	Box side cover	1	AM
2- 22	LHLDW0363JBE0	Wire holder	1	AA
2- 23	PSEL-A482JBE0	Cont. box insulator	1	AH
2- 24	CW-VZA117JBK0	Connective wire	1	AP
2- 25	XHTSD40P08000	Tap tight screw	1	AA
		CYCLE PARTS		
3- 1	PCPY-A221JB10	Capillary tube	1	AS
3- 2	PPIPCA962JBE0	Vacuum tube	1	AM
3- 3	PPIPCB199JBE0	Lead tube	1	AL
3- 4	PPIPCA964JBE0	Joint tube	1	AL
3- 5	PCMPRA132JBE0	Compressor (806-919-45)	1	CK
3- 6	PCON-A209JBE0	Condenser	1	BX
3- 7	PEVA-A194JBE0	Evaporator	1	BV
3- 8	PPIPCB197JBE0	Discharge tube	1	AM
3- 9	PPIPCB198JBE0	Suction tube	1	AP
3- 10	PCOV-A106JBE0	Terminal cover	1	AH
3- 11	GLEG-A031JBE0	Compressor cushion	3	AE
3- 12	PSEL-A477JBE0	Terminal gasket	1	AN
3- 13	LX-NZ0240JBE0	Special nut	1	AA
3- 14	LX-NZ0260JBE0	Special nut	3	AB

REF. NO.	PART NO.	DESCRIPTION	Q'TY	CODE
3- 15	PSEL-A497JBE0	Pipe insulator	2	AG
3- 16	LBND-A034JBE0	Wire fixing band	2	AB

FRONT PANEL PARTS

4- 1	GWAKPA097JBFB	Front panel	1	AV
4- 2	MJNTPA037JBFB	Louver link H	1	AC
4- 3	MJNTPA038JBFB	Louver link V	1	AC
4- 4	MLOV-A122JBFB	Horizontal louver	8	AC
4- 5	MLOV-A123JBFB	Vertical louver A	1	AD
4- 6	MLOV-A124JBFB	Vertical louver B	1	AD
4- 7	HBDGDA045JBJA	SHARP emblem	1	AL
4- 8	PFILMA064JBFB	Air filter	1	AC
4- 9	PFPFPA742JBE0	Duct insulator A	1	AK
4- 10	PFPFPA743JBE0	Duct insulator B	1	AH
4- 11	PFPFPA744JBE0	Duct insulator C	1	AH
4- 12	PFPFPA745JBE0	Duct insulator D	1	AH
4- 13	PFPFPA766JBE0	Duct insulator E	1	AK
4- 14	GFTA-A344JBFB	Control cover	1	AF
4- 15	CWAK-B437JBK0	Drain joint ass'y	1	BA

ACCESSORY PARTS

5- 1	PGSK-A004JBE0	Gasket	1	AM
5- 3	TINSEA081JBR0	Operation manual	1	AE
5- 4	DX-BZA018JBK0	Screws kit	1	AK
5- 5	XCTWJ40P12000	Tapping screw	1	AA
5- 6	XTTSD40P25000	Tapping screw	7	AA
5- 7	DPFT-A004JBK0	DRain joint ass'y	7	AA

PACKING PARTS

6- 1	SPAKCG355YDE0	Packing case	1	AX
6- 3	CPADBA356YDK0	Top pad ass'y	1	AX
6- 4	CPADBA357YDK0	Bottom pad ass'y	1	AZ

HOW TO ORDER REPLACEMENT PARTS

To have your order filled prompty and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION